## M.Sc.(Geology) (CBCS Pattern) Semester - I PSCGEOT03 - Paper-III : Metamorphic Petrology & Geological Mapping

	uges : 2 e : Thre		urs $* 1 3 4 2 *$	<b>GUG/S/23/11164</b> Max. Marks : 80
	Notes	: 1 2		
1.		Wha	t is metamorphic textures? Describe types of textures observed in m	etamorphic rocks.
			OR	
	Write notes on the following.			
	:	a)	Contact metamorphism.	
	]	b)	Retrograde metamorphism.	
		c)	Factors controlling metamorphism.	
		d)	Scope of metamorphic petrology.	
2.		Desc	ribe the metamorphism of mafic rocks.	
			OR	
		Writ	e note on the following.	
	;	a)	Regional Metamorphism.	
	]	b)	Paired metamorphic belt.	
		c)	Blue-Schist.	
		d)	Metamorphic Differentiation	
3.		Desc	ribe in brief the thermodynamic principles of metamorphic reaction	s.
			OR	
		Write note on the following.		
	;	a)	Clausius - Clapeyron equation.	
		b)	Reaction Isograds.	
		c)	Geothermometry.	
		d)	Geobarometry.	

Give an account of topographic maps & base maps for geological mapping.

## OR

Write note on the following.

4.

5.

- a) Geological symbols in maps.
- b) Types of geological maps.
- c) Types of geological sections.
- d) Mapping methods in sedimentary rocks.

Write very short note on the following: -

- a) Protoliths.
- b) Pressure temperature regimes.
- c) Granulite.
- d) Eclogite.
- e) ACF
- f) AKF
- g) Two objectives of geological mapping.
- h) General principles of geological mapping.

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